

1 ~~7~~. (Amended) A vehicle monitoring system that monitors the state of a plurality of vehicles, said system comprising:

at least one mobile data unit that generates automatic status information corresponding to a delivery vehicle, wherein the automatic status information includes position information and delivery state information;

a delivery state database that store the automatic status information generated by the mobile data unit;

wherein the mobile data unit includes a controller, GPS receiver coupled to the controller, and at least one vehicle condition sensor coupled to the controller, and said controller generates the automatic status information based on signals received from the GPS receiver and the vehicle condition sensor;

wherein the controller determines the delivery state information based on the signal received from the vehicle condition sensor; and

wherein the vehicle condition sensor generates a mixing barrel status signal indicative of a charge operation condition and a discharge operating condition of a mixing barrel, and wherein the controller determines a Begin Pour delivery state and an End Pour delivery state based on the mixing barrel status signal.

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8. (Amended) A vehicle monitoring system as claimed in claim ~~7~~¹, wherein the delivery state information includes a plurality of delivery states that define a delivery cycle, and wherein the controller determines whether a current delivery state is valid based on the delivery cycle.

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10. (Amended) A vehicle monitoring system as claimed in claim ¹~~2~~, wherein the mobile data unit includes a wireless transmitter/receiver that transmits the automatic status information from the mobile data unit to the delivery state database via wireless transmission device coupled to the deliver state database.

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16. (Amended) A vehicle monitoring system as claimed in claim ¹~~17~~, wherein hot zone data corresponding to geographic zone around at least one of a loading terminal and a delivery site is supplied to the mobile data unit, and wherein the controller determines the delivery state information based on the hot zone data.

²²
27. (Amended) A method of providing automatic status information for a plurality of delivery vehicles, wherein the automatic status information includes position information and delivery state information, said method comprising:

- determining position information corresponding to each of the delivery vehicles using a GPS data;
- determining delivery state information corresponding to each of the delivery vehicles using at least one vehicle condition sensor provided on each of the delivery vehicles;
- transmitting the position information and delivery state information to a delivery state database via a wireless transmission network; and
- defining a plurality of delivery states corresponding to a delivery cycle, wherein the delivery state information comprises the delivery states;
- wherein the validity of a current delivery state is determined based on whether a prerequisite deliver state has occurred; and
- wherein the delivery state include a Begin Pour delivery state and an End Pour delivery state associated with the delivery of ready-mix concrete.